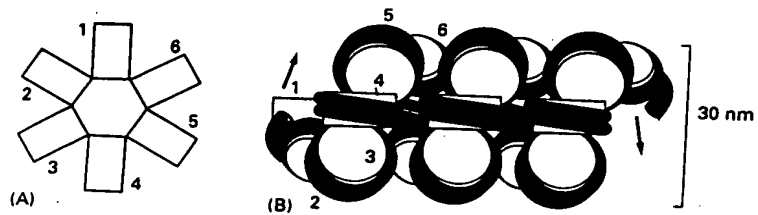
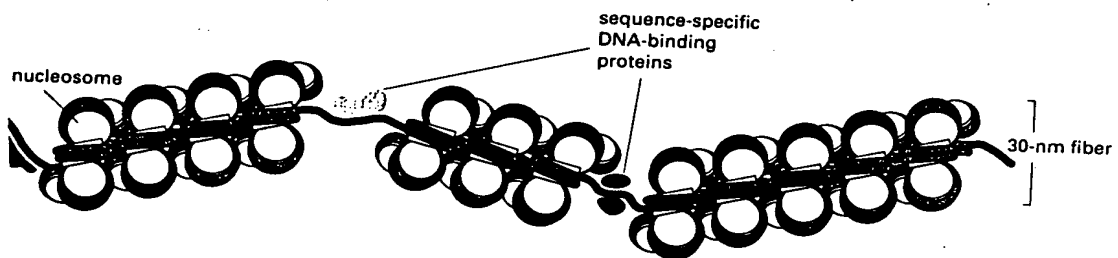


Figure 1

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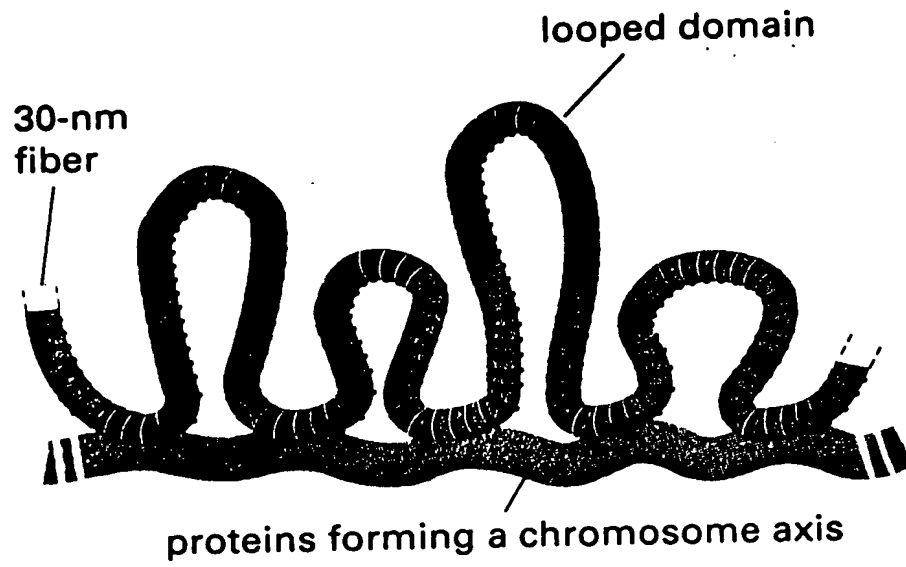
(a)



(b)

Figure 2

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**Figure 3**

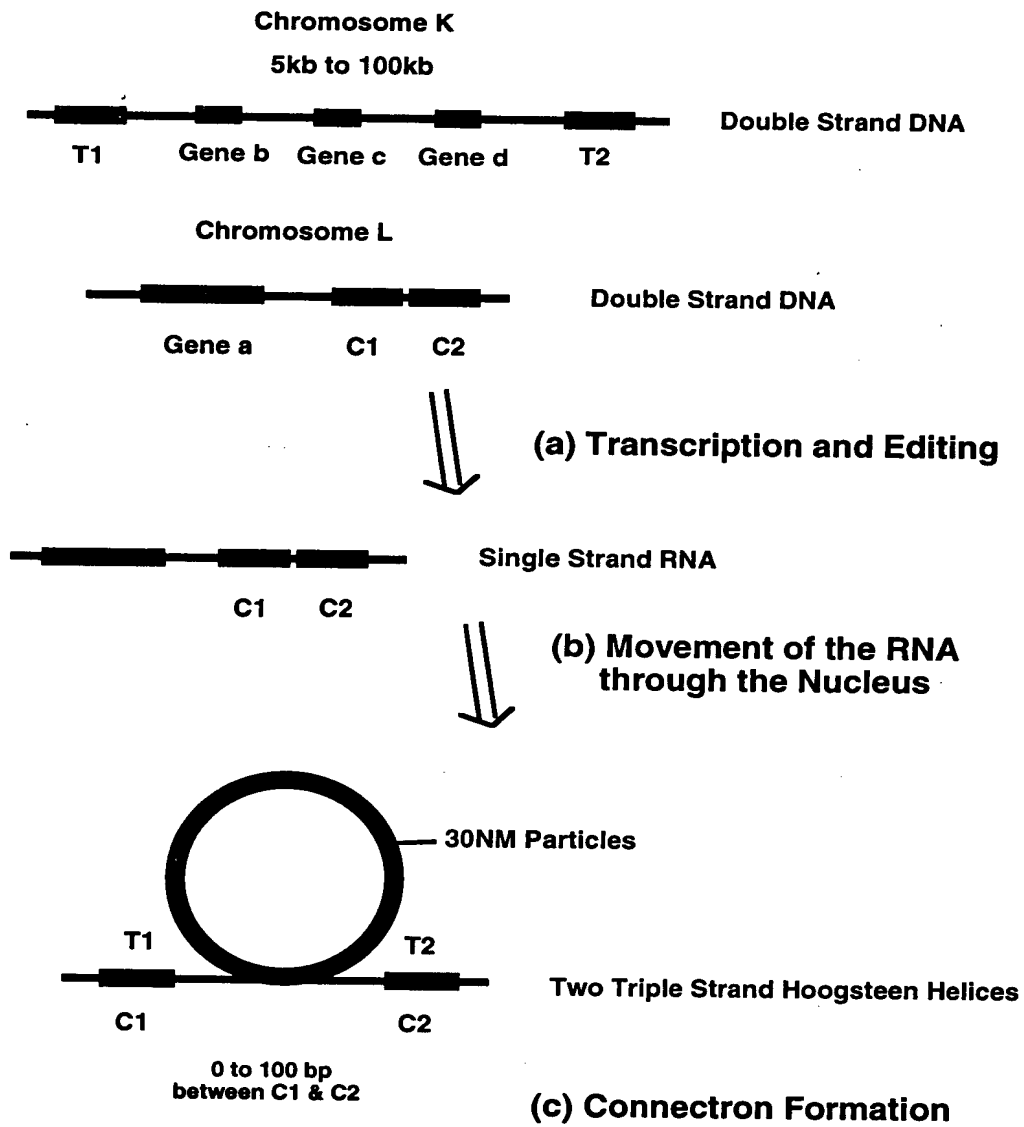
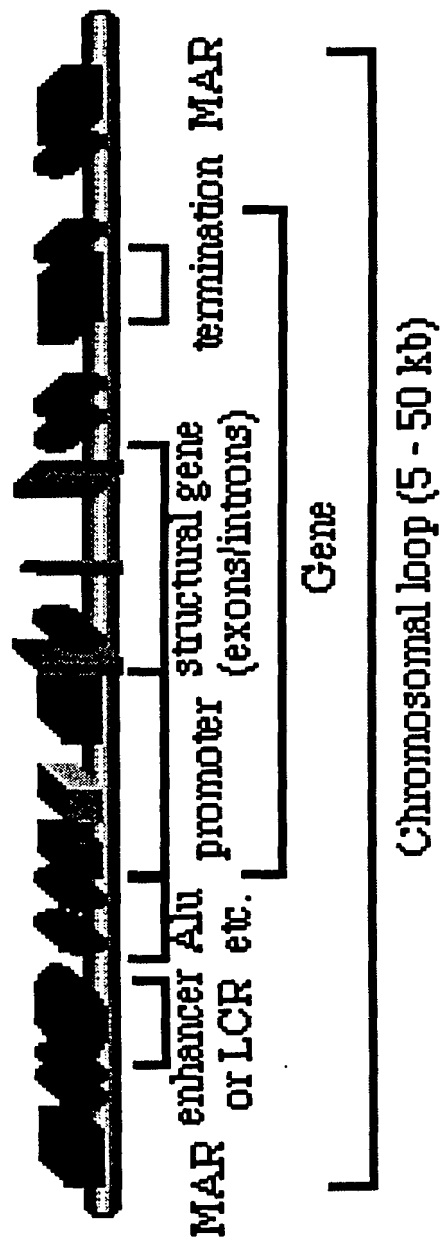


Figure 4



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Figure 5

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Genome	Chromosome Number	Number of Genes	Chromosome Length (bp)	Total Number of C1/C2 Short Loops	Total Number of T1/T2 Long Loops	Number of Unique C1/C2 Short Loops	Number of Unique T1/T2 Long Loops	Number of Unique T1/T2 Long Loops	Percent of Genes Controlled
Table 1									
<i>E. coli</i>	I	4,289	4,639,221	544	544	544	214	178	24.78
<i>H. pylori</i>	I	1,566	1,667,867	19	19	19	17	10	10.53
<i>M. luteus</i>	I	1,715	1,664,970	1,648	1,648	1,648	122	360	35.12
<i>D. radiodurans</i>	I	2,580	2,648,638	974	974	974	246	292	
	II	357	412,348	113	113	14	17	10	
III - Plasmid MP1	131	177,466	803	803	1,259	87	464		
IV - Plasmid CP1	35	45,704	91	91	80	28	45		77.14
Totals		3,103	3,284,156	1,981	1,981	378	811		
<i>S. cerevisiae</i>	I	110	230,209	898	283	26	112		
	II	447	813,137	1,987	2,516	568	1,094		
	III	172	315,339	1,314	1,762	336	553		
	IV	845	1,520,519	4,253	3,689	1,298	1,279		
	V	280	576,870	2,034	2,888	638	1,111		
	VI	127	270,148	438	155	153	45		
	VII	629	1,090,936	3,003	2,776	981	982		
	VIII	279	562,638	1,207	410	433	166		
	IX	236	439,885	248	81	113	48		
	X	406	745,440	1,691	2,019	541	768		
	XI	351	666,448	513	228	128	68		
	XII	578	1,078,173	3,010	4,282	951	1,921		
	XIII	501	924,430	2,306	3,254	680	1,229		
	XIV	458	784,328	1,579	490	528	144		
	XV	609	1,091,283	1,630	526	543	210		
	XVI	510	948,066	2,628	2,680	820	967		
Totals		6,538	12,057,849	28,139	28,139	8,737	10,697		19.88
<i>C. elegans</i>	I	2,474	16,183,833	315,926	159,815	12,245	24,537		
	II	3,043	17,004,925	133,735	92,585	13,370	26,647		
	III	2,100	12,114,540	83,171	897,303	8,472	198,469		
	IV	2,523	15,887,371	67,196	99,562	10,641	14,420		
	V	4,358	21,280,512	337,841	246,674	15,612	33,571		
	X	2,625	17,624,844	611,789	63,719	6,198	7,805		
Totals		17,123	100,095,025	1,559,658	1,559,658	66,478	245,449		33.6

Table 1 - page 1

Genome	Chromosome Number	Number of Genes	Chromosome Length (bp)	Total Number of C1/C2 Short Loops	Total Number of T1/T2 Long Loops	Number of Unique C1/C2 Short Loops	Number of Unique T1/T2 Long Loops	Percent of Genes Controlled
D. megamelaster	Scaffold							
	1	1,138	10,564,115	16,200	17,916	3,268	5,015	
	2	698	4,515,887	3,293	9,317	955	2,634	
	3	633	5,077,262	3,502	3,027	1,038	556	
	4	1,075	9,080,116	129,140	127,538	1,566	5,910	
	5	1,777	15,101,630	16,800	16,463	2,565	2,093	
	6	122	1,265,848	668	237	180	110	
	7	28	536,527	476	586	208	378	
	8	615	4,861,285	10,727	10,731	603	979	
	9	317	2,692,893	2,506	759	624	214	
	10	286	2,159,491	1,436	1,049	494	369	
	11	1,822	16,346,801	8,593	8,415	2,363	1,860	
	12	143	1,363,555	151	15	64	13	
	13	3,075	24,259,494	11,273	9,274	3,133	1,608	
	14	49	705,960	1,922	1,754	606	662	
	15	91	1,361,891	3,544	4,719	907	2,721	
	16	66	509,295	101	106	42	28	
	17	1,893	13,672,760	6,770	3,298	1,929	739	
	18	61	751,204	1,451	2,521	490	1,596	
	19	35	403,964	471	1,291	212	926	
Totals		13,924	115,229,998	219,014	219,014	21,257	28,411	5.21
A. thaliana	la	3,221	14,221,815	22,735	20,165	3,310	4,603	
	lb	3,136	14,668,883	22,202	25,016	4,043	7,324	
	II	4,036	19,647,091	153,605	75,591	10,377	19,290	
	IV	3,823	17,550,082	523,824	601,594	6,445	54,956	
Totals		14,216	66,087,871	722,366	722,366	24,175	86,173	7.51
H. sapiens	XXI	position data not available	33,667,731		> 10,000			

Table 1 - page 2

Chromosome of C1/C2	Chromosome of T1-T2															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	39	57	35	57	4	5	19	2	41		38	25	7	12	12	
2	9	70	13	27	98		22	17	1	9	36	130	15		89	
3	6		54	44	39		37	5	1	5	16	23	10	6	29	
4	10	73	93	257	158	13	138	12	2	67	9	135	144	30	38	125
5	1	47	13	42	32	5	19		1	26	76	14	5	9	18	
6											46					
7	4	72	46	114	83	7	100	14	2	64	6	83	91	15	20	73
8	10	66	13	52			25	14	3	25	58	15	3	12	16	
9	2			12	14		18	9	2	1	4		2	4	8	
10	4	9	24	48	107	1	47	9	1	59	8	38	100	10	8	81
11		27	15	39	1		15			26	5	6	29	1	11	14
12	10	68	61	107	90	8	77	2		56	2	193	73	19	25	76
13	4	78	60	134	85	2	68	8	3	71	14	60	173	10	28	127
14		66	13	56	14		16			25		15	18	4	12	28
15	3	10	20	31	79	1	27	11	1	8	8	52	78	6	7	82
16	6	54	68	126	121	9	86	14	1	51	15	100	130	20	24	137

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Table 2



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Genome Size vs Connectron

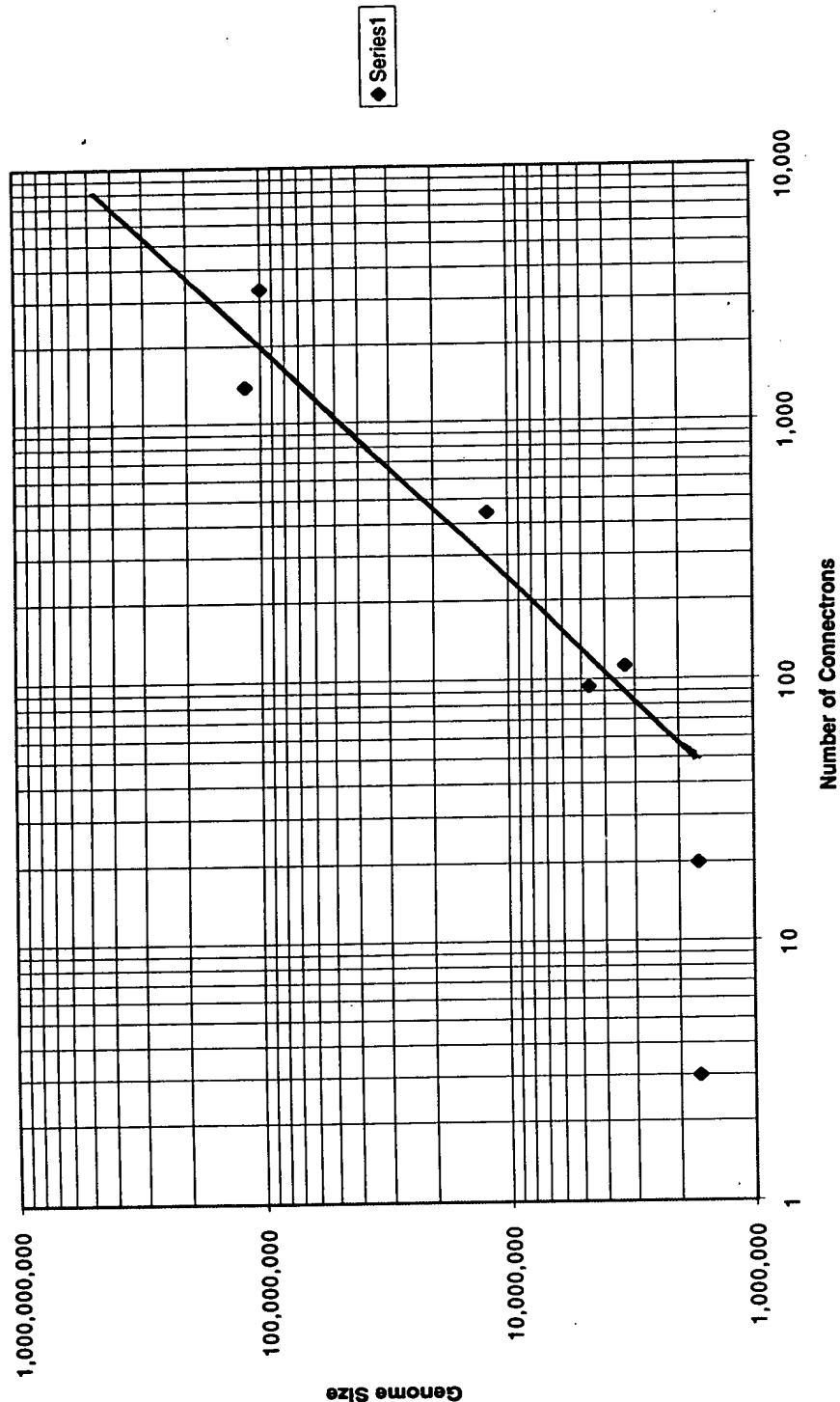
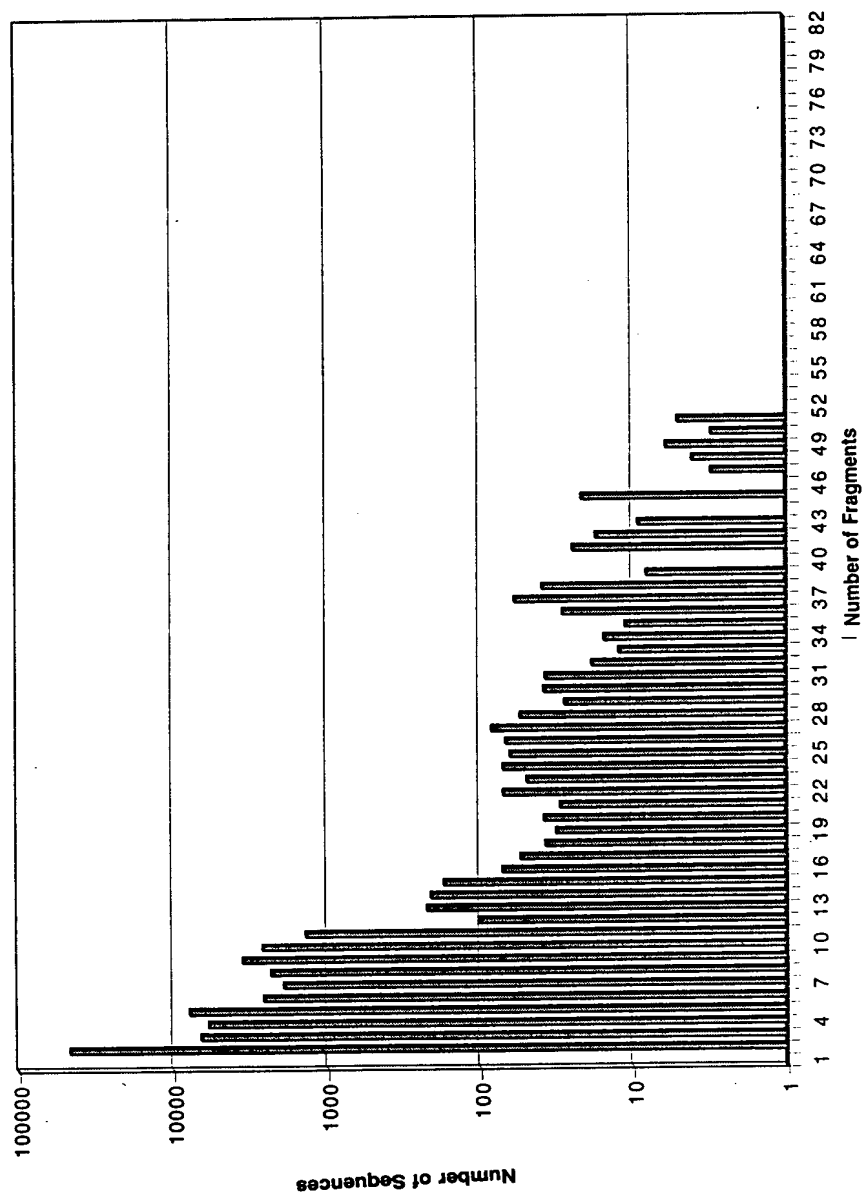


Figure 6

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# S. Cervesiae - Fragment Distribution



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Figure 7

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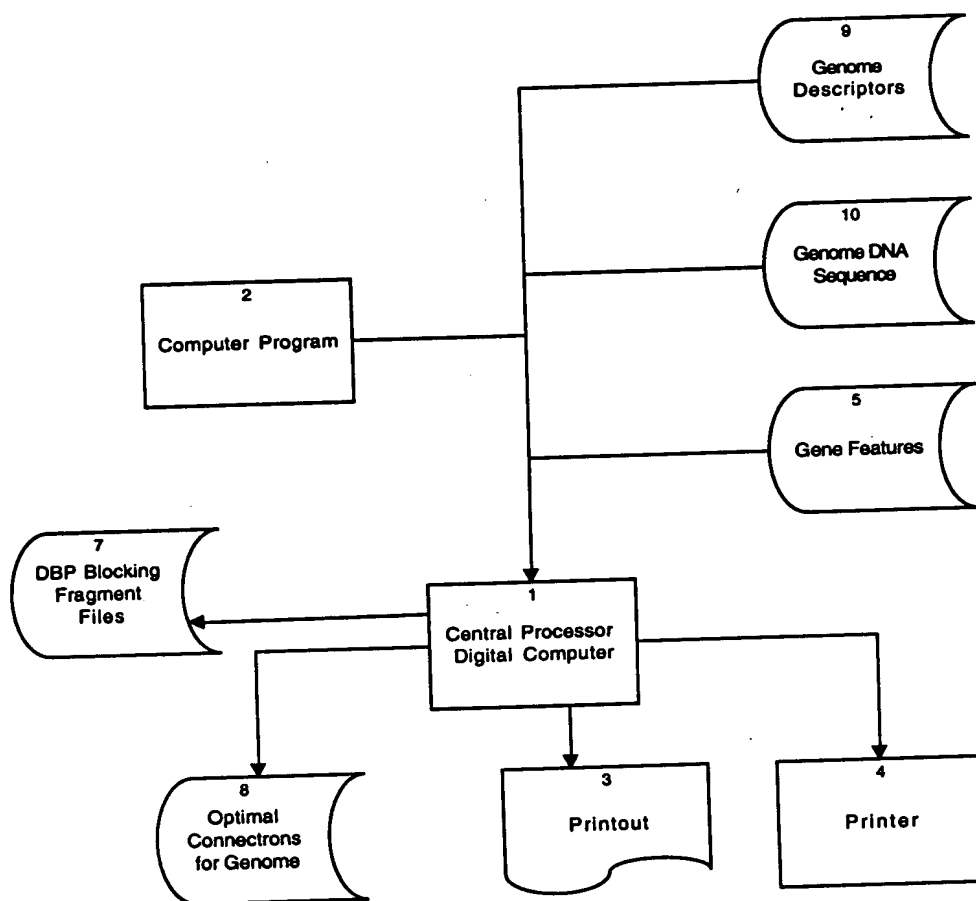


Figure 8

TOP SECRET 52699860

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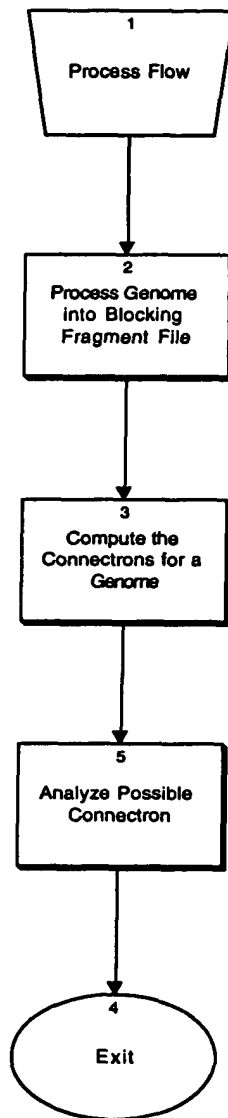


Figure 9

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T00E50 52699860

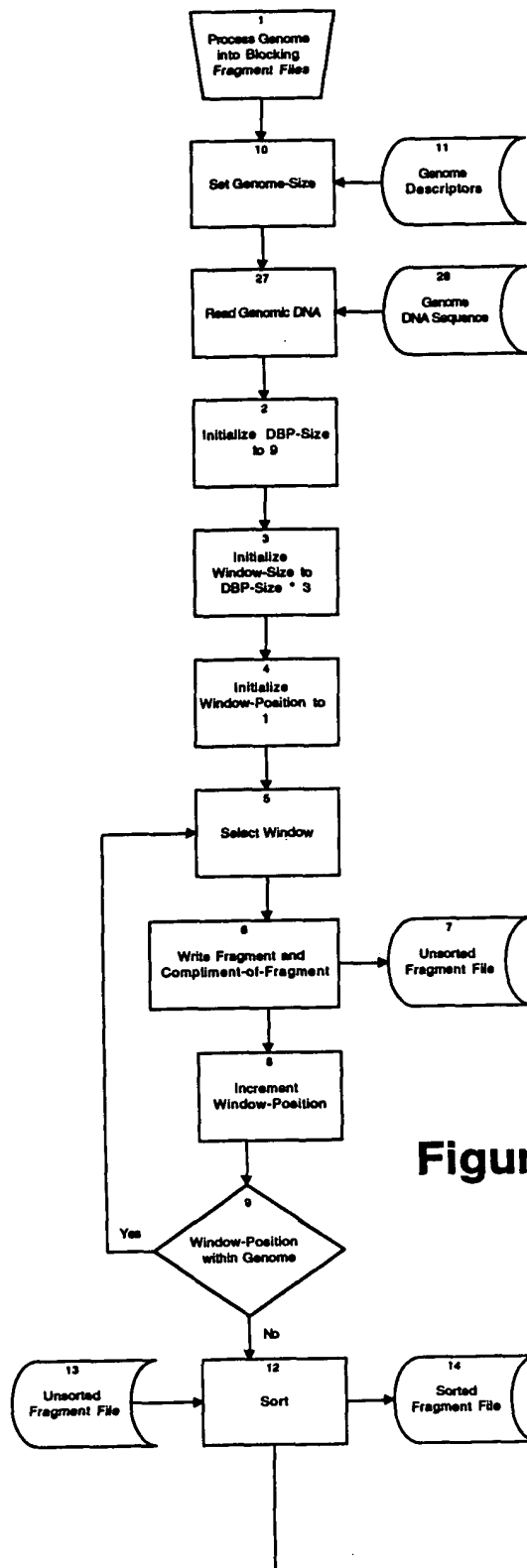


Figure 10 - page 1

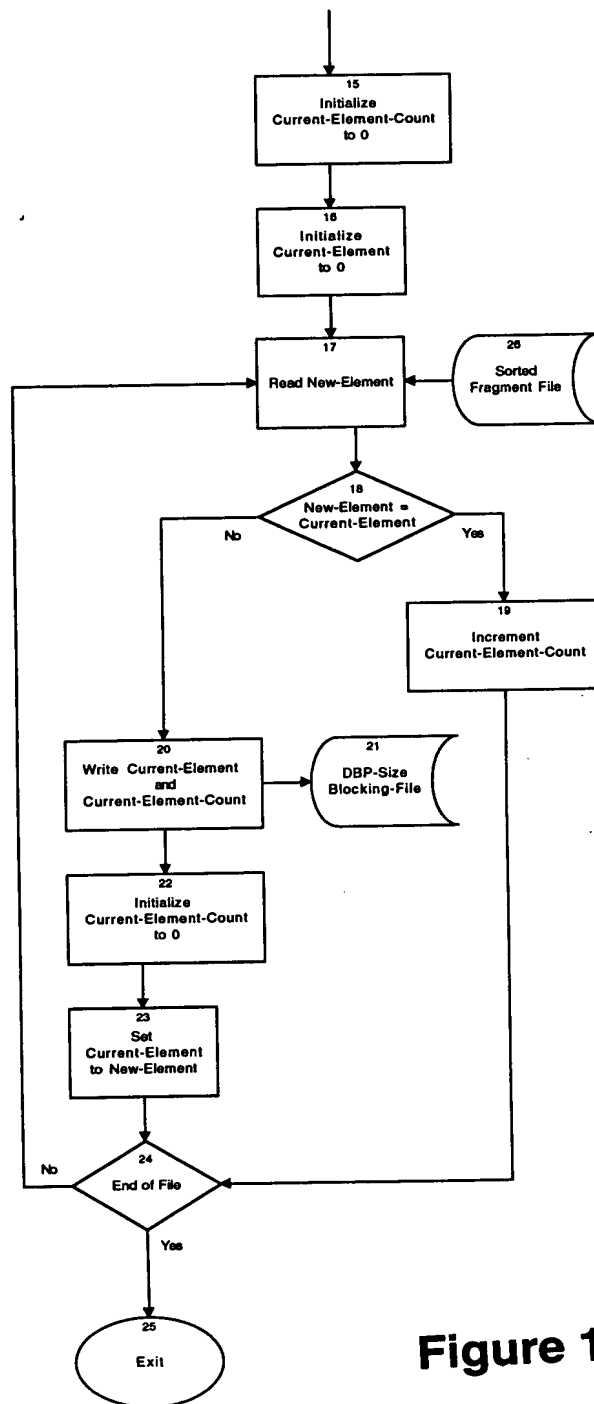
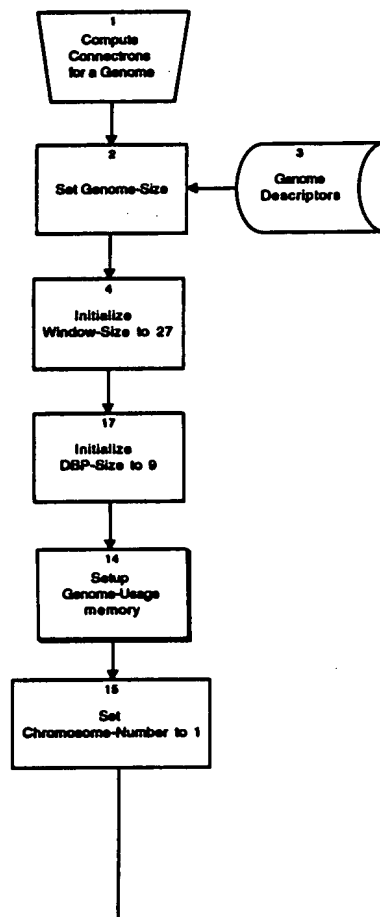


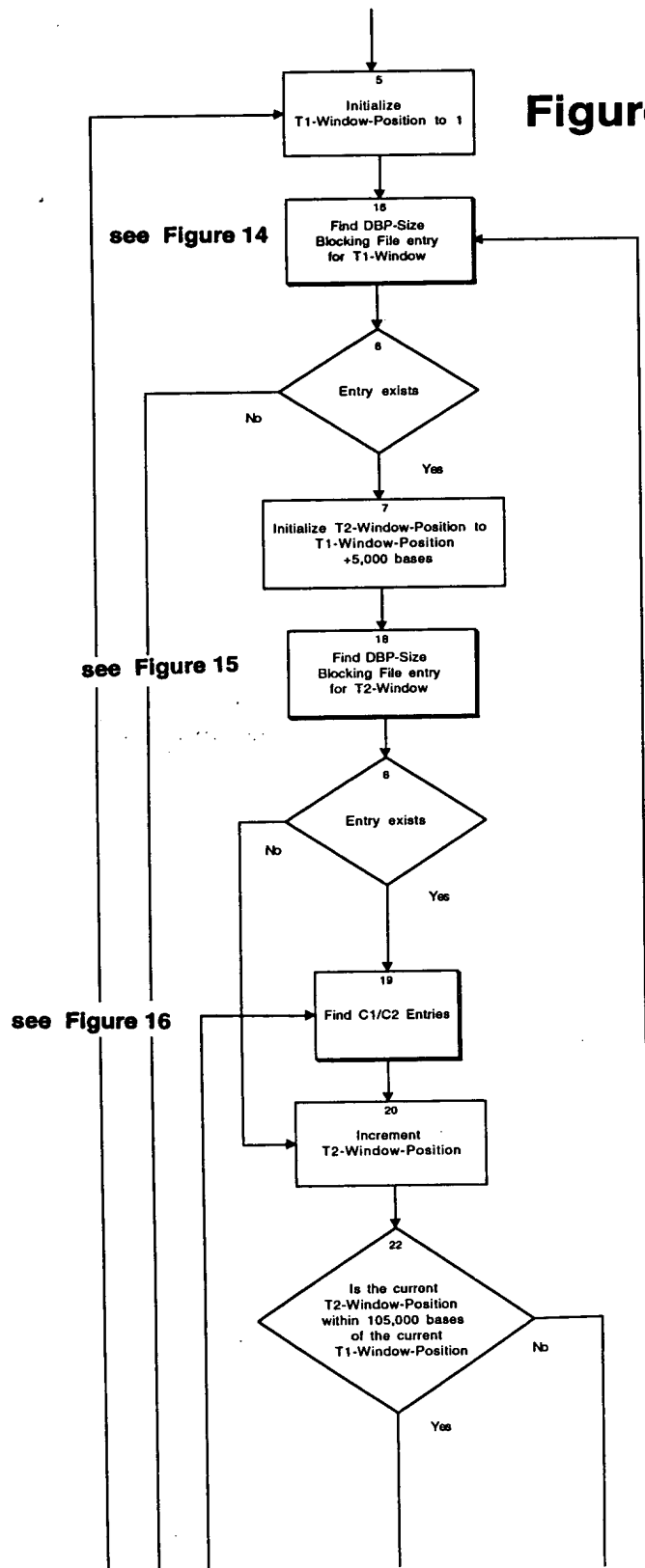
Figure 10 - page 2

Figure 11 - page 1



see Figure 13

Figure 11 - page 2





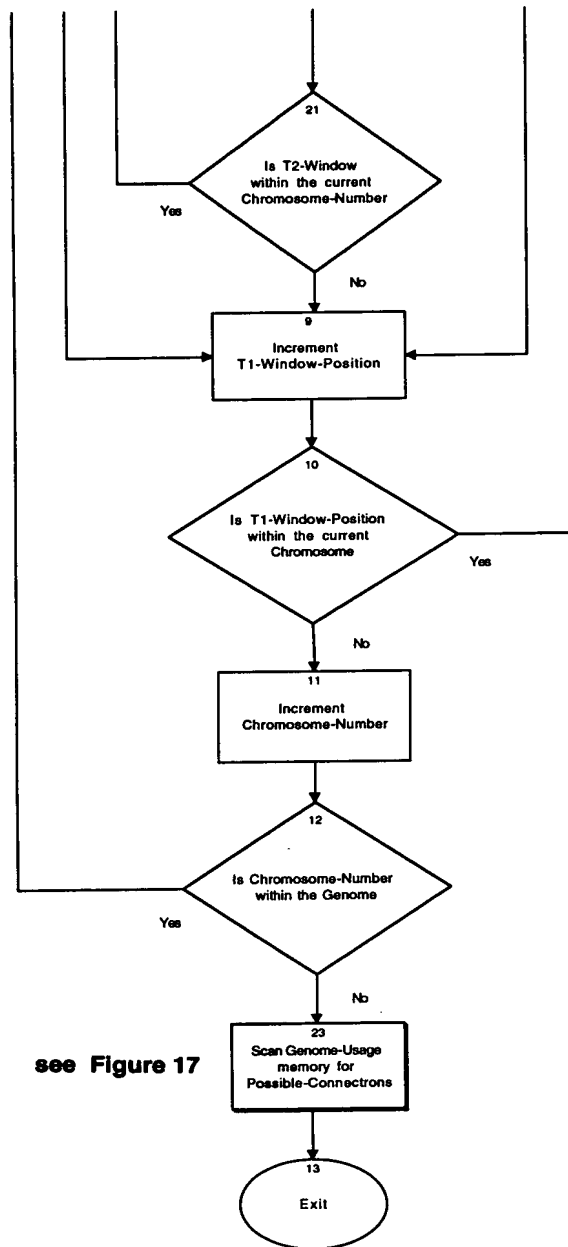
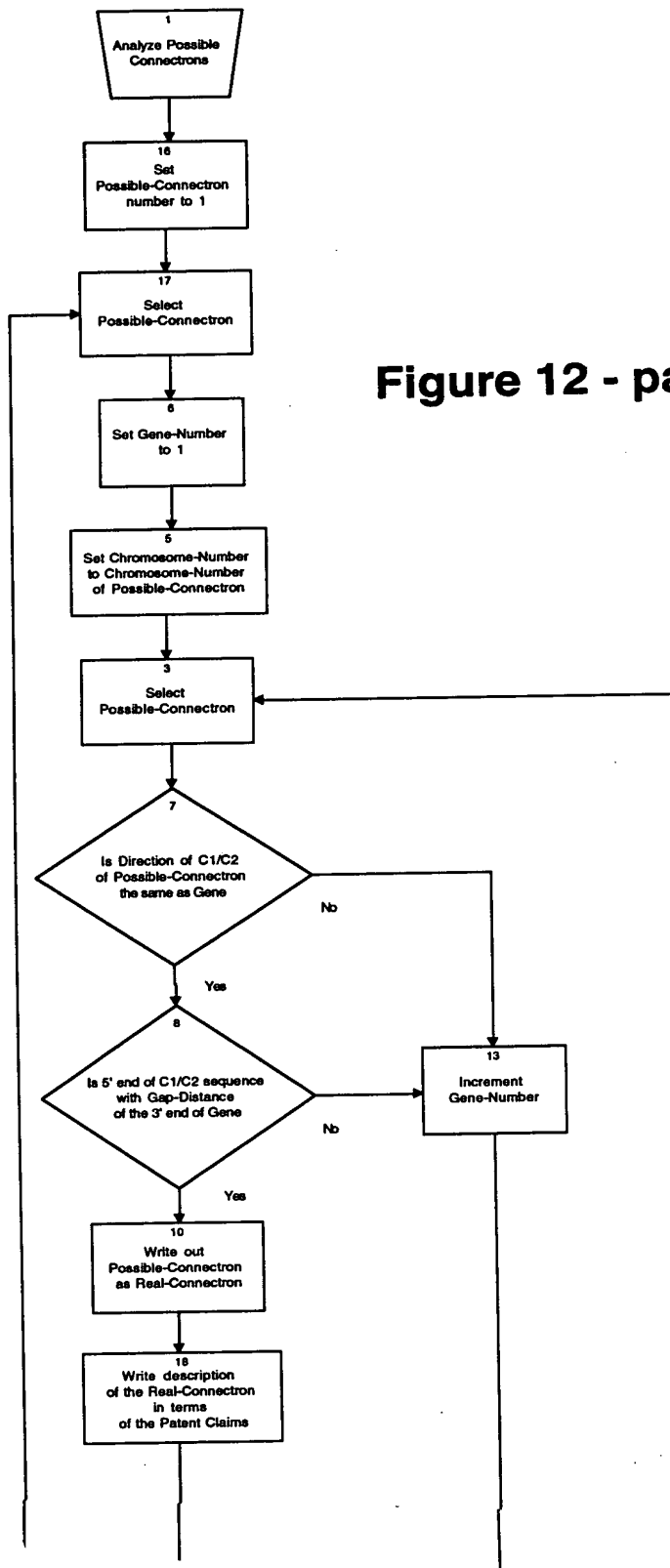


Figure 11 - page 3

Figure 12 - page 1



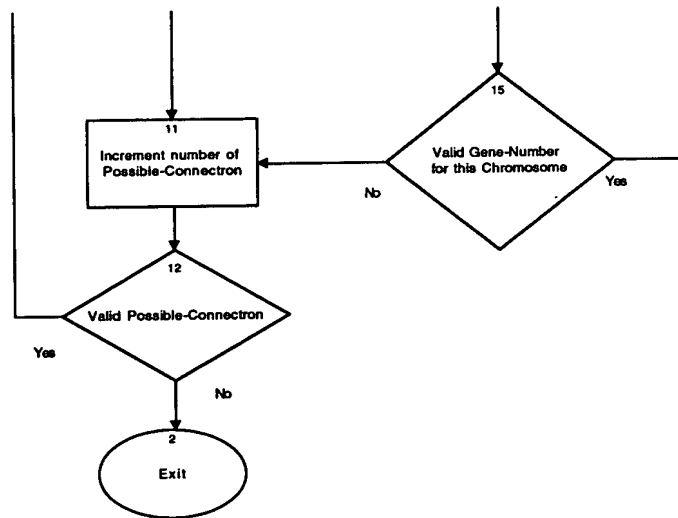


Figure 12 - page 2

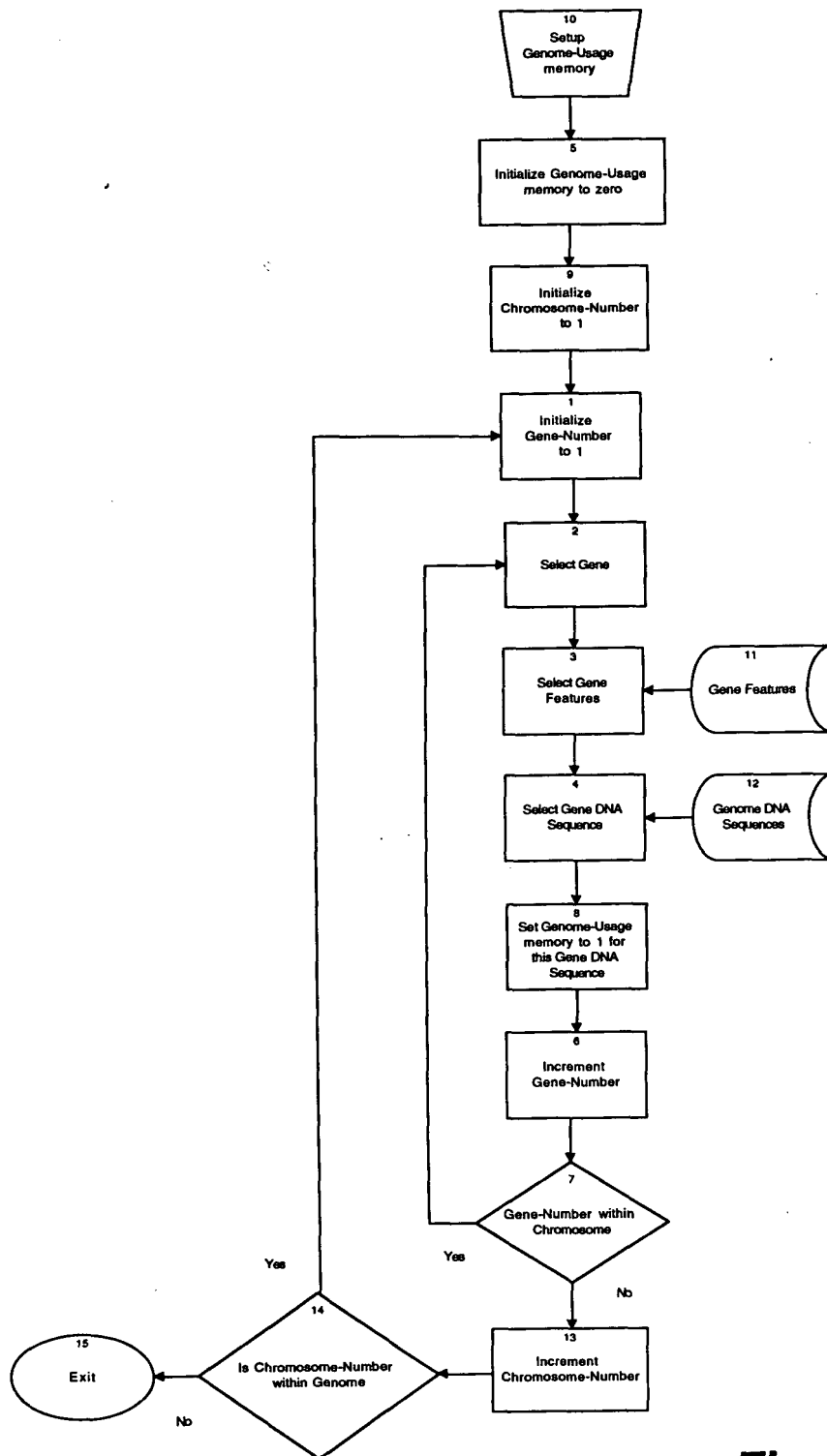


Figure 13

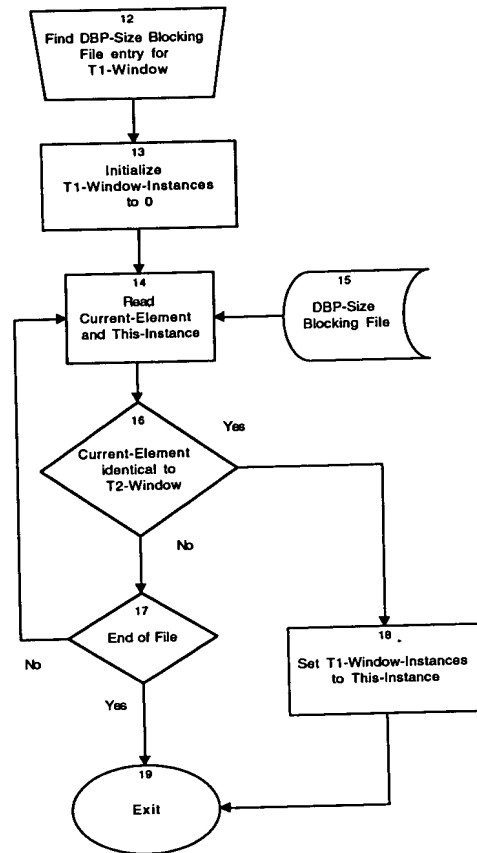


Figure 14

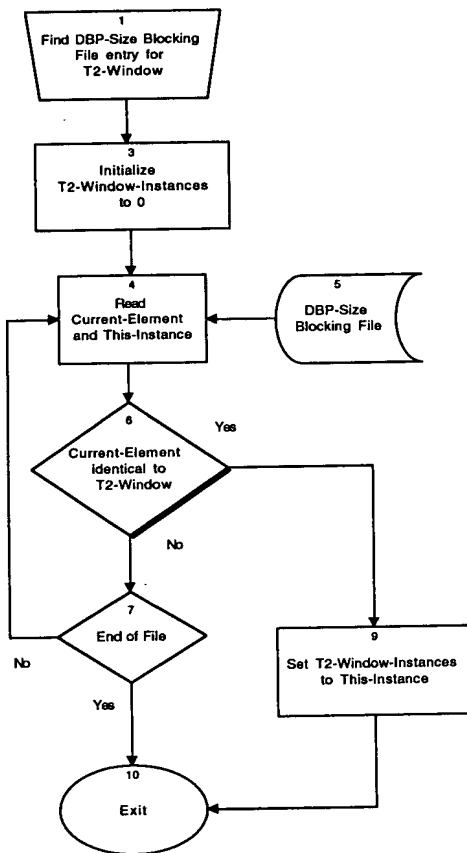
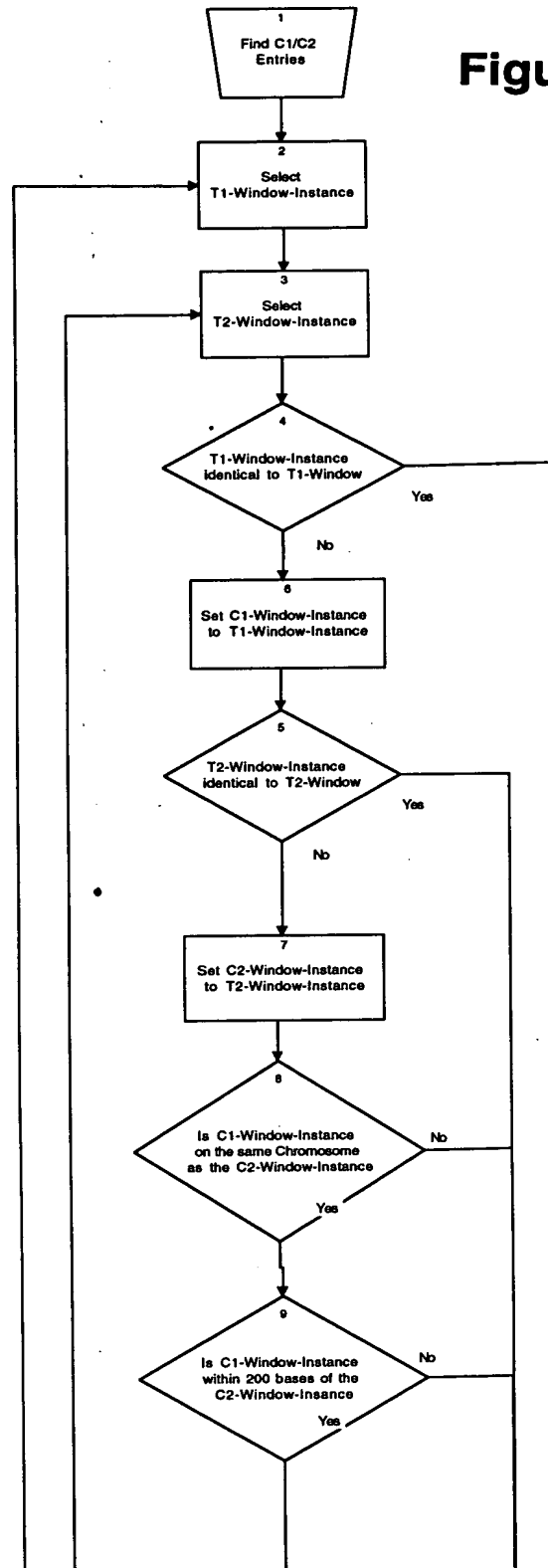


Figure 15

Figure 16 - page 1



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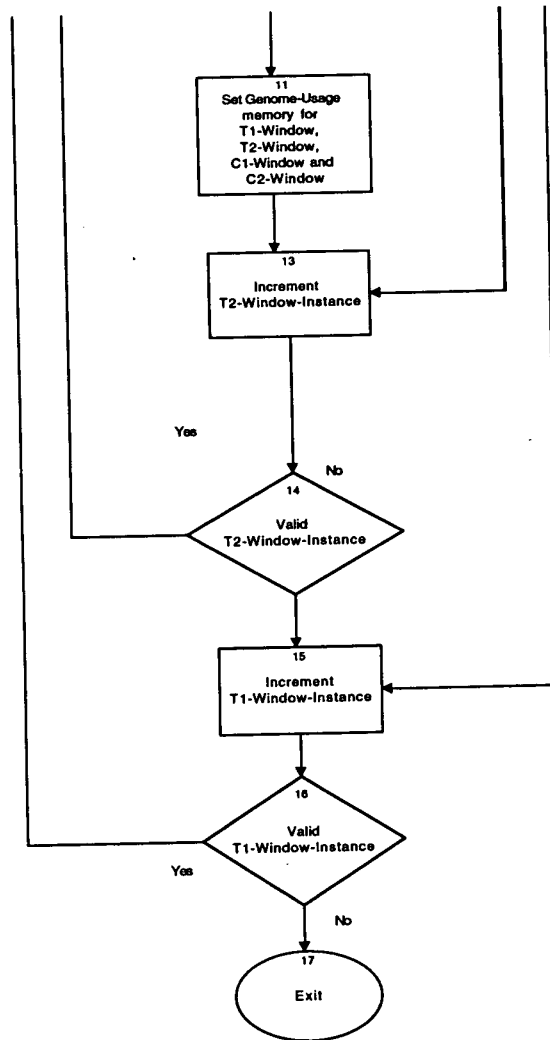
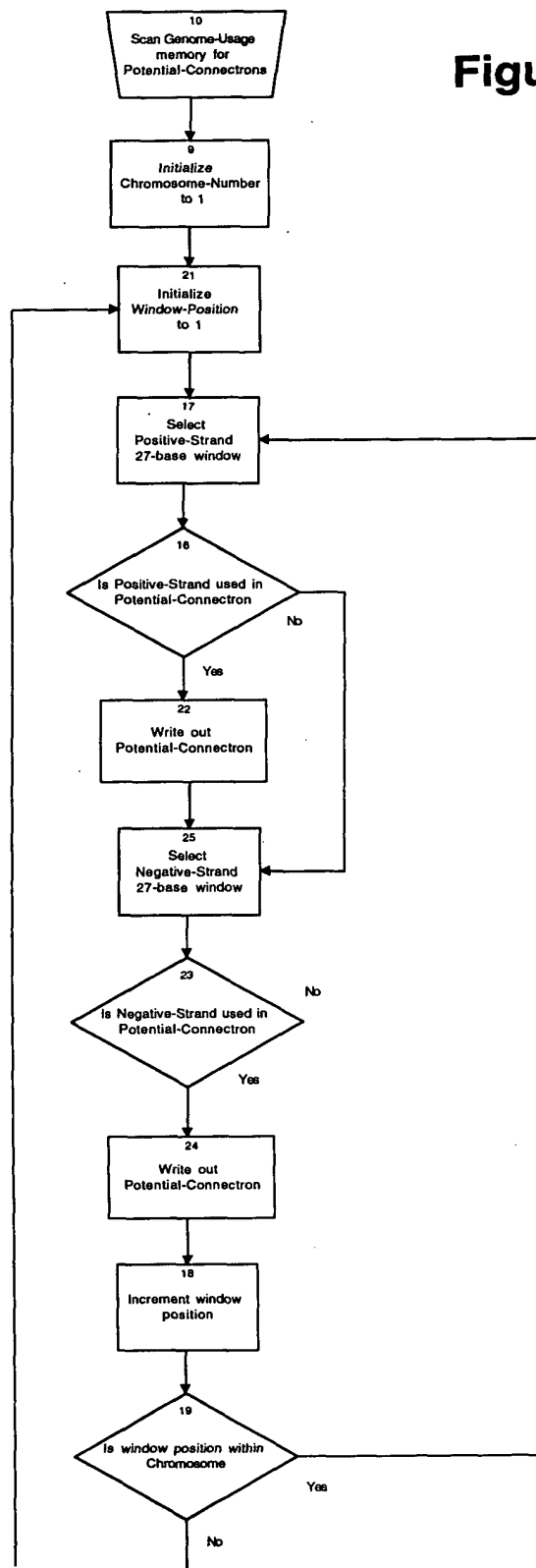


Figure 16 - page 2



**Figure 17 - page 1**



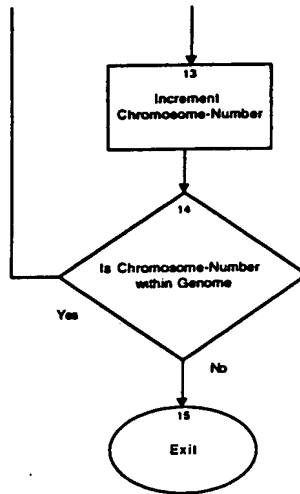


Figure 17 - page 2

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